



Science Toolkit: Grade 7 Objective 3.B.1.b

Student Handout: Science: Grade 7 Objective 3.B.1.b

Standard 3.0 Life Science

Topic B. Cells

Indicator 1. Gather and organize data to defend or argue the proposition that all living things are cellular (composed of cells) and that cells carry out the basic life functions.

Objective b. Based on data from readings and designed investigations, cite evidence to illustrate that the life functions of multicellular organisms (plant and animal) are carried out within complex systems of different tissues, organs and cells.

Extracting energy from food

Getting rid of wastes

Making raw materials

Selected Response (SR) Item

Question

Use the information below to answer the following question.

Pine trees are vascular plants. There are more than 100 species of pine trees. The loblolly pine is native to Maryland and is found in forests near the Chesapeake Bay. This tree grows rapidly. An interesting feature of the loblolly pine tree is the presence of both male and female structures on one tree. The loblolly pine is a member of a group of cone-bearing plants called conifers. These plants do not produce flowers. The conifers slowly separated from a group of flowering plants approximately 100,000,000 years ago.

Which life function occurs primarily in the roots of a loblolly pine tree?

- A. reproduction
- B. food production
- C. water absorption
- D. sunlight collection

Correct Answer

C. water absorption

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